Attorney Docket No.: FHW-051US

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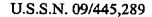
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- i) a polypeptide comprising at least 50% identity or homology with amino acid residues 117 to 184 of SEQ ID NO: 2
- ii) a polypeptide comprising at least 50% homology with amino acid residues 224 to 318 of SEQ ID NO: 11;
  - iii) a polypeptide comprising the amino acid sequence of SEQ ID NO: 43;
- iv) a polypeptide comprising at least 20% identity or homology with amino acid residues 117 to 184 of SEQ ID NO: 2; and
- v) a polypeptide homologue, allelic form, species variant or mutein comprising at least 50% identity or homology with amino acid residues 117 to 184 of SEQ ID NO: 2.
- 127. The method of claim 126, wherein the polypeptide is recombinant.
- 128. The method of claim 126 or claim 127, wherein said polypeptide is used in therapy, diagnosis or prophylaxis of a microbial infection.
- 129. The method of claim 128, wherein the therapy is immunotherapy.
- 130. The method of claim 126 or claim 127, wherein said polypeptide is in a pharmaceutically acceptable carrier suitable for local or systemic administration.
- 131. The method of claim 126 or 127, wherein the polypeptide is in unit dosage form.
- 132. A pharmaceutical composition for resuscitating dormant, moribund or latent bacterial cells comprising,
  - a therapeutically effective amount of a polypeptide selected from the group consisting of:
- i) a polypeptide comprising at least 50% identity or homology with amino acid residues 117 to 184 of SEO ID NO: 2
- ii) a polypeptide comprising at least 50% homology with amino acid residues 224 to 318 of SEQ ID NO: 11;
  - iii) a polypeptide comprising the amino acid sequence of SEQ ID NO: 43;
- iv) a polypeptide comprising at least 20% identity or homology with amino acid residues 117 to 184 of SEQ ID NO: 2; and
- v) a polypeptide homologue, allelic form, species variant or mutein comprising at least 50% identity or homology with amino acid residues 117 to 184 of SEQ ID NO: 2, and



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- a pharmaceutically acceptable carrier therefor.
- 133. The composition of claim 132, wherein the composition is a vaccine.
- 134. The composition of claim 133, wherein the vaccine is a live vaccine comprising an attenuated microbe.
- 135. A method for resuscitating dormant, moribund or latent bacterial cells comprising, contacting the bacterial cells with an antibody or functional fragment thereof that binds a polypeptide selected from the group consisting of:
- i) a polypeptide comprising at least 50% identity or homology with amino acid residues 117 to 184 of SEQ ID NO: 2
- ii) a polypeptide comprising at least 50% homology with amino acid residues 224 to 318 of SEQ ID NO: 11;
  - iii) a polypeptide comprising the amino acid sequence of SEQ ID NO: 43;
- iv) a polypeptide comprising at least 20% identity or homology with amino acid residues 117 to 184 of SEQ ID NO: 2; and
- v) a polypeptide homologue, allelic form, species variant or mutein comprising at least 50% identity or homology with amino acid residues 117 to 184 of SEQ ID NO: 2.
- 136. The method of claim 135, wherein the antibody is suitable for use in therapy, diagnosis, or prophylaxis of a microbial infection.
- 137. The method of claim 136, wherein the therapy is an immunotherapy.
- 138. The method of claim 136, wherein the antibody is in a pharmaceutically acceptable carrier suitable for local or systemic administration.
- 139. The method of claim 136, wherein the antibody is in unit dosage form.
- 140. A method for resuscitating dormant, moribund or latent bacterial cells comprising, introducing into cells an isolated nucleic acid encoding a polypeptide comprising a sequence selected from the group consisting of:



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- i) a polypeptide comprising at least 50% identity or homology with amino acid residues 117 to 184 of SEQ ID NO: 2
- ii) a polypeptide comprising at least 50% homology with amino acid residues 224 to 318 of SEQ ID NO: 11;
  - iii) a polypeptide comprising the amino acid sequence of SEQ ID NO: 43;
- iv) a polypeptide comprising at least 20% identity or homology with amino acid residues 117 to 184 of SEQ ID NO: 2; and
- v) a polypeptide homologue, allelic form, species variant or mutein comprising at least 50% identity or homology with amino acid residues 117 to 184 of SEQ ID NO: 2.
- 141. The method of claim 140, wherein said nucleic acid is in a pharmaceutically acceptable carrier.
- 142. A method for resuscitating dormant, moribund or latent bacterial cells comprising, introducing into cells an expression vector comprising a nucleic acid encoding a polypeptide comprising a sequence selected from the group consisting of:
- i) a polypeptide comprising at least 50% identity or homology with amino acid residues 117 to 184 of SEQ ID NO: 2
- ii) a polypeptide comprising at least 50% homology with amino acid residues 224 to 318 of SEQ ID NO: 11;
  - iii) a polypeptide comprising the amino acid sequence of SEQ ID NO: 43;
- iv) a polypeptide comprising at least 20% identity or homology with amino acid residues 117 to 184 of SEQ ID NO: 2; and
- v) a polypeptide homologue, allelic form, species variant or mutein comprising at least 50% identity or homology with amino acid residues 117 to 184 of SEQ ID NO: 2.
- 143. The method of claim 142, wherein the vector is in a pharmaceutically acceptable carrier.
- 144. A method for resuscitating dormant, moribund or latent bacterial cells comprising, contacting the bacterial cells with a cell strain expressing a nucleic acid encoding a polypeptide comprising a sequence selected from the group consisting of:
- i) a polypeptide comprising at least 50% identity or homology with amino acid residues 117 to 184 of SEQ ID NO: 2



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- ii) a polypeptide comprising at least 50% homology with amino acid residues 224 to 318 of SEQ ID NO: 11;
  - iii) a polypeptide comprising the amino acid sequence of SEQ ID NO: 43;
- iv) a polypeptide comprising at least 20% identity or homology with amino acid residues 117 to 184 of SEQ ID NO: 2; and
- v) a polypeptide homologue, allelic form, species variant or mutein comprising at least 50% identity or homology with amino acid residues 117 to 184 of SEQ ID NO: 2.
- 145. A diagnostic kit for detecting dormant, moribund or latent bacterial cells comprising a polypeptide having a sequence selected from the group consisting of:
- i) a polypeptide comprising at least 50% identity or homology with amino acid residues 117 to 184 of SEQ ID NO: 2
- ii) a polypeptide comprising at least 50% homology with amino acid residues 224 to 318 of SEQ ID NO: 11;
  - iii) a polypeptide comprising the amino acid sequence of SEQ ID NO: 43;
- iv) a polypeptide comprising at least 20% identity or homology with amino acid residues 117 to 184 of SEQ ID NO: 2; and
- v) a polypeptide homologue, allelic form, species variant or mutein comprising at least 50% identity or homology with amino acid residues 117 to 184 of SEQ ID NO: 2, and instructions for use in diagnosis to detect dormant, moribund or latent bacterial cells.
- 146. A culture medium for resuscitating dormant, moribund or latent bacterial cells comprising a polypeptide having a sequence selected from the group consisting of:
- i) a polypeptide comprising at least 50% identity or homology with amino acid residues 117 to 184 of SEQ ID NO: 2
- ii) a polypeptide comprising at least 50% homology with amino acid residues 224 to 318 of SEQ ID NO: 11;
  - iii) a polypeptide comprising the amino acid sequence of SEQ ID NO: 43;
- iv) a polypeptide comprising at least 20% identity or homology with amino acid residues 117 to 184 of SEQ ID NO: 2; and
- v) a polypeptide homologue, allelic form, species variant or mutein comprising at least 50% identity or homology with amino acid residues 117 to 184 of SEQ ID NO: 2.



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- 147. A transport medium for resuscitating dormant, moribund or latent bacterial cells comprising a polypeptide having a sequence selected from the group consisting of:
- i) a polypeptide comprising at least 50% identity or homology with amino acid residues 117 to 184 of SEQ ID NO: 2
- ii) a polypeptide comprising at least 50% homology with amino acid residues 224 to 318 of SEQ ID NO: 11;
  - iii) a polypeptide comprising the amino acid sequence of SEQ ID NO: 43;
- iv) a polypeptide comprising at least 20% identity or homology with amino acid residues 117 to 184 of SEQ ID NO: 2; and
- v) a polypeptide homologue, allelic form, species variant or mutein comprising at least 50% identity or homology with amino acid residues 117 to 184 of SEQ ID NO: 2.